

Emerging Renewables Program

Solar Conference
North State Renewable Energy
Chico, CA
March 10, 2005

BILL BLACKBURN

Lead, Emerging Renewables Program California Energy Commission



Today's Talk

To Cover Today:

- Emerging Renewables Program Overview
- Update
- Solar Schools
- Performance-Based Incentive Program (PBI)
- Problem Areas
- Future Directions



Program Overview

Renewable Energy Program

- New Renewable Facilities Program
 - Accelerate the addition of new renewable capacity to CA's electric generation system
- Existing Renewable Facilities Program
 - Encourage economic viability of existing renewable projects
- Emerging Renewables Program



Emerging Renewables Program

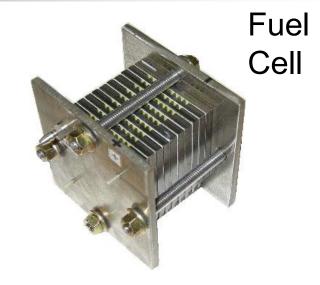
Goal is to accelerate cost reduction and market acceptance through high volume production of emerging renewable technologies

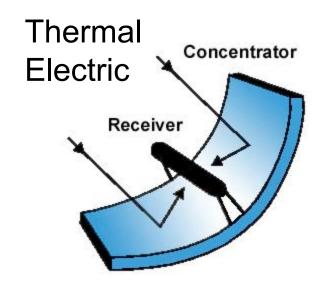
- Provides rebates for purchasing & installing distributed generation renewable systems
- Reduces the up-front costs for customers
- Focuses on grid-connected systems designed to meet on-site load



ERP Eligible Technologies







Solar PV





Emerging Renewables Program

Solar PV, is by far the most common type of application we receive in the ERP





New Guidebook Highlights

New Guidebook (4th Ed.) was approved January 19, 2005, and can be ordered from our call center or downloaded from web

Highlights:

- Reservation Request Form (R1) changed
- Extensions no longer be available for new applications after 1/19/05
- Simplified extensions for previous applications
- Seller registration form (R4) has changed

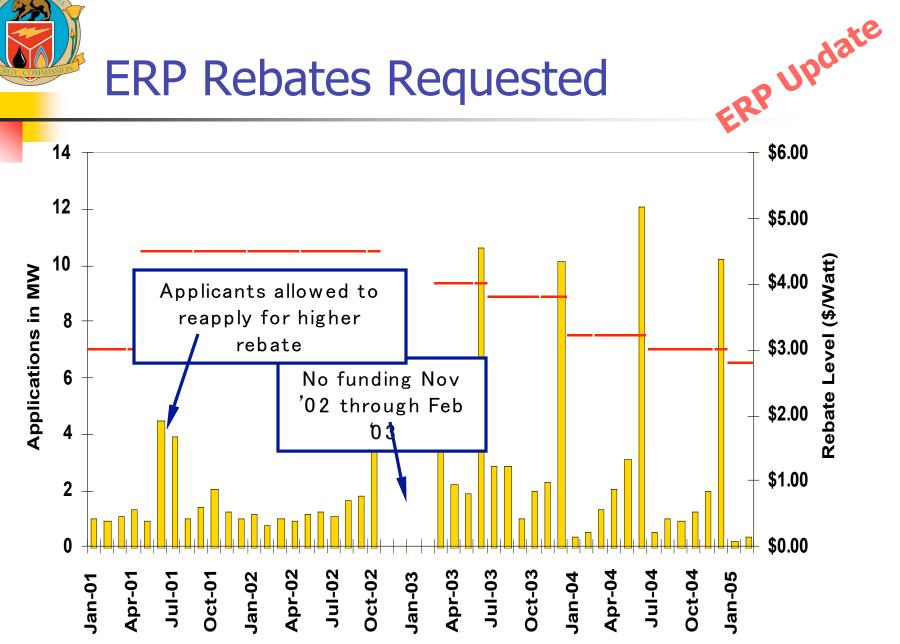


New Guidebook Highlights

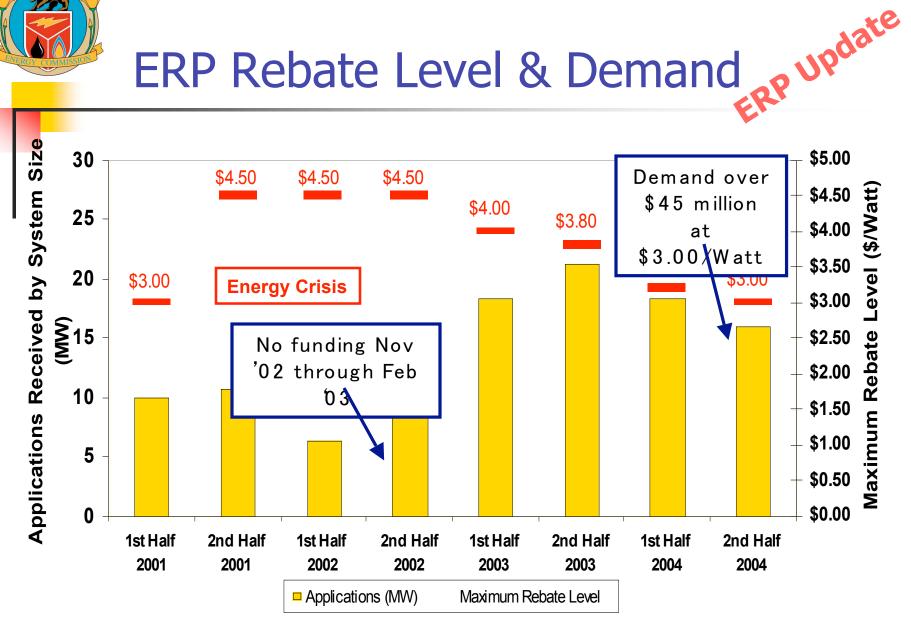
- Sellers still required to re-register by March 31 each year
- An inverter test protocol has been adopted and the inverter ratings must be provided by 4/1/05 with new data
- Applicants can now cancel and reapply during the reservation period if reapplying for a lower rebate level
- The Pilot Performance-Based Incentive (PBI)
 Program has been added and related new forms



ERP Rebates Requested







Note: Excludes Solar Schools Program applications.



Prices, PV Installed Retrofits

ERP Update



Includes all applications based on the date the application was received (1 to 10 kW between \$3 and \$15 per Watt).

Excludes applications for housing developments, affordable housing rebates, and Solar Schools Program.



Systems Installed - ERP

ERP Update

Number	MW	Amount
41	0.2	\$0.5
197	1.1	\$2.9
235	0.8	\$2.2
1,292	4.3	\$16.9
2,331	8.5	\$36.3
3,021	12.9	\$52.1
<u>4,615</u>	<u>19.2</u>	<u>\$69.4</u>
11,732	47.0	\$180.3
	41 197 235 1,292 2,331 3,021 4,615	41 0.2 197 1.1 235 0.8 1,292 4.3 2,331 8.5 3,021 12.9 4,615 19.2



Systems Installed - ERP

ERP Update

Year 2005 (so far)	Number 648	MW 2.6	Amount (mil.) \$8.9



Solar Schools Program

- 2004 SSP launched May 2004
- \$4.5 million in funding, evenly split from AG Alternative Energy Retrofit Account funds and the ERP
- For eligible K-12 public and charter schools within the four utility areas: PG&E, SCE, SDG&E and Bear Valley Electric.
- \$6.40/Watt rebate level (twice ERP rebate at the time)



Solar Schools Program

- Less than 30 kW; need to provide school board resolution, proof of energy efficiency measures as established by CEC and agreement to set up a curriculum tie-in about solar energy and energy conservation. 60 districts applied; 30 were awarded totaling 703 KW
- Fully subscribed before June 30, 2004
- Most schools located in PG&E territory, six from SCE, two from SDG&E



Performance-Based Incentive

PBI Highlights:

- Began January 19, 2005
- Program included in new Guidebook (4th Edition)
- Solar systems only, any size
- Pilot, three year program
- \$10 million budget
- Quarterly payments of \$.50/kWh produced
- Can not combine with other programs (e.g., ERP or SGIP)



Problem Areas

- 50% of applications incomplete or with errors
- Service address on utility bill not provided
- Equipment different on R1 form than in supporting documents
- Unclear equipment listed
- Unsigned documents
- No performance meter identified
- Companies without contractor's license charging for labor
 - Have no proof of customer payments to contractor....results in lower self install rebate



Reservation Process

Turn in:

- Reservation application form (signed R1 form)
- Recent utility bill
- Copy of agreement with installer and purchaser
- Payee data record (STD 204)
 - If not previously paid by CEC



Future of ERP

- Funding, we have \$71 mil. may run out around late 2005 (plus \$10 mil. for PBI)
- Will return applications that have errors or incomplete
- Moving to "ramp up" whole program
- We would like to hear from you with suggestions on how to best manage a much larger program



For More Information

Call Center 800-555-7794 (toll free in CA)

or e-mail: renewable@energy.state.ca.us

Websites ...



www.energy.ca.gov/renewables





www.consumerenergycenter.org/renewable

